WITH THE FARMERS

By Prof. W. F. MASSEY



understand that plants do not use ammonia at all. When ammonia is really present in the soil, it must go through the process of nitrification, or change into a nitrate, before green plants can use it. The lime promotes this nitrification by making conditions favorable in the soil for the work of the bacteria that change ammonia into a nitrate. Your fertilizer salesman the bacteria that change ammonia into a nitrate. Your fertilizer salesman needs to study these things a little more closely. Never mix lime with stable manure or with a fertilizer containing organic nitrogen, like cotton-seed meal, before putting it in the soil. After it is in the soil the lime will do no harm.

Corn and Cob Menl.

What is the feeding value of corn cobs ground with the corn? Have they any great feeding value that will make them worth grinding?" Corn cobs have a far greater feeding value than the cottonseed hulls so largely used in the South, being more digestible. They the South, being more digestible. They have more protein than the cottonseed hulls, far more digestible carbohydrates and nearly as much fat. When well-ground it pays to grind them for feed with the corn. What the combined value of the corn and cobs will be I have no data at hand to decide, but there will not be a great deal of but there will not be a great deal of difference between the corn and cob meal and the pure meal.

The Value of Pennuts as Hog Feed. The peanut growers know the importance of having the hogs glean the fields, but few really know the value of the peanuts in making pork. Hence the results of experimental work will be interesting. The Arkansas Station found that an acre of peanuts made 1,252 pounds of pork; an acre of chufas 592 pounds; an acre of corn 486 pounds. The Alabama Station found that an

toes.
"I have grown a equal to 1,068 pounds of corn, or 214 pounds of pork. The Wisconsin Station found that an acre of good rape feeding value equal to 2.43s ance of growing a variety of crops for

m sending you a plant that seems

man tells me that lime will destroy the nitrosen or animonia in a fertilizer if applied to the soil within sixty days before or after the application of the fertilizer. He cites the fact that time used around a closet or urinal, which contains much animonia, will destroy the odor at once. I now have a fine crop of spring onlons on the way, but my soil is acid, and I had intended using lime on it, as soon as the onions are cleared off, and planting early snapbeans at once. But, from what he says, to get the benefit of the nitrogen in the fertilizer, I must use the lime and then the fertilizer not till sixty days after. Kindly set me right with this, as I know the land needs lime if it is said that a little learning is a dangerous thing, and the fertilizer salesman has gotten the little. He has learned that lime added to a nitrogenous fertilizer will carbonate and cause the manonia in carbonate and cause the manonia is set free, the soil and well mixed in it, you can add your fertilizer at once without danger of loss, for if any amonia is set free, the soil will at once absorb it, and the soil bacteria will go to work to change it into a nitrate, so that plants can use it.

There will not be the slightest harm done by applying time to the soil. Then the snap heans if the lime is well harrowed into the soil. Then the snap heans and the lime is well harrowed into the soil. Then the snap hears and the lime will have no bad effect on the nitrate of soda, as it is no longer ammonia, but a nitrate ready at once to feed the plants. You must understand that plants do not use ammonia at all. When ammonia is ready at understand that plants do not use ammonia at all. When ammonia is ready at understand that plants do not use ammonia at all. When ammonia is ready at understand that plants do not use ammonia at all. When ammonia is ready at once to feed the plants. You must understand that plants do not use ammonia that the containt of the plants of the plants on the plant of the plants of the plants of the plants of the plan

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IN FINAL GAME

Now that the Little V. P. L's have you the little league championship, an all-star team has been picked from the other five teams in the league, the Little Yales, Little Invincibles, Little Academies, Little Tigers and Grove Avenue, and will play the Little League champions Saturday morning at 10 o'clock on the Richmond College campus. A fast game may be expected.

The Little V. P. L's have only lest two games this season, and they were to two teams in the league. They played the Little Vales three games, taking two out of the three. They also played the Little Invincibles three games and won two out of the series. They played the Little Academies, Little Tigers and Grove Avenues each one game and won from each team.

The line-up for the game follows:
Little V. P. I's Diggs, left and Cates, left tackle: Straid, left gand; Cumings, centre, Rucker, right guard. A. Burnham, right tackle: Williams, right end; R. Burnham, ham, quarter back, Christian, left haif back, James, right haif quarter back. Christian, left half James, full back: Briggs, right half back.
All-Stars-Vaughn, left end; Merce, left tackle; Minor, left guard; Flemming, centre; Bower, right guard; Carter, right tackle; Bearson, right end; Conrad, quarter back; Peachy, lett half back; Moseley, full back; Thalmer, right half back.

CAPTAIN OF TEAM

Richmond Boy Named to Lead Hampden-Sidney Eleven in 1914.

Hampden-Sidney, Va., December 4 .--At a meeting of the letter men, Frank Ebel, of Richmond, was elected captain of the football team for next year. This is his second year on the team, and his position is right end, where he has done stellar work in every game. His build is ideal for a wing man. He is over six feet and weight man. He is over six feet and weighs 175 pounds. No man in the last ten years on a Hampden-Sidney football team has filled the position of end so well as he. In tackling, breaking interference, and handling the forward passes, he has shown university call-bre. For two years he was captain of McGuire's University School team, in Richmond, and was their mainstay in every game. He is a member of the every game. He is a member of the Chi Phi Fraternity, and one of the most popular students in college. The following men have been award-

ed letters: Saunders, captain: Bowling, Shackelford, Guthrie, Walker, Bene-dict, Gregory, Ebel, Carrington, Pendleton, Thurman, Moore, Forbus, Pair. Numerals were awarded to Orr. Ochler, Bugg, Warren, Warwick, Campbell, Adams, Baker, Herzig, Thompson, Kidd, Sloan, Arbuckle and Oliver.

The let rem who will be on hand for the team next year are Shackelford, Guthrie, Gregory, Ebel, Carrington, Pendleton, Thurman and Pair. ton, Pendleton, Thurman and Pair. Coach Bernier is away from the hill now getting furnishings for his bunga-low, which he expects to occupy the first of January. He will return to the hill in a few days, and will give his basketball men a workout. Of the men of last year's team, the following are here: Carrington, Pendleton, Tait, and Sloan. McClung (captain) is ex pected after Christman.

North Carolina Schools Agree Upon Post-Season Series of Games.

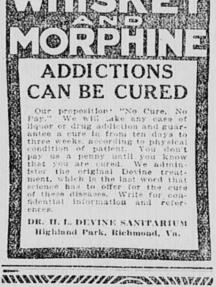


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sprinter, won the feature event

Fifth race—five furlongs, three years old and up, selling—Briar Path, 107 (Buxton), 2 to 5, out, won; Kiva, 195 (W. Doyle), 19 to 1, 5 to 2, even, second; Amoret, 111 (Martin), 8 to 1, 8 to 5, 3 to 5, third. Time, 1:02 2-5, Loan Shark, Luria, Rye Straw, Jack Kellogg, Fred Levy also ran.

Sixth race—five furlongs, three years of St. John's Lodge, No. 36, A., F. & A. M., will be held in its lodge-room, at the Masonic Temple, Adams and Broad Streets, THIS (Friday) of sister lodges and transient brethrem are fraternally invited to unite with us.

Fred Levy also ran.

Sixth race—one mile and seventy yards, three year olds and up, selling—Angier, 110 (Waldron), 6 to 5, 1 to 2, out, won; Servicence, 111 (Martin), 4 to 1, 5 to 2, 7 to 10, second; Michael Augelo, 113 (Deronde), 5 to 1, 2 to 1, 4 to 5, third. Time, 1:48 2-5. Haldeman, Coreposts, L. M. Eckert, Bobby Cook also ran. man, Corepos. Cook also ran. Entries.

First race—two year olds, maidens, purse \$300, five and one-half furlongs—Dicks Pets, 112, Bastante, 112; Helen Dicks Pets, 112, Bastante, 112; Helen M., 112; Lancewood, 112; High Class, 112; Cliff Maid, 112; Nelrose, 112; Stellata, 112; Pulsation, 115; Water Lad, 115; Tom Boy, 112.

Second race—three year olds and up, filles and mares, selling, purse \$350, six furlongs—Gagnant, 114; Snow Flakes, 109; Ella Curry, 109; Metra E., 114; *Cliff Top, 109; Chilton Queen, 114; *Big Dipper, 104; Veneta Strome, 114.

Third race—three year olds and up.

Big Dipper, 104; Veneta Strome, 114.
Third race—three year olds and up, filles and mares, selling, purse \$300, six furlongs—'Miss Primity, 109; the Busybody, 114; Loretta Dwyer, 109; 'Jacquelina, 109; Chemulpo, 114; Terra Banco, 109; Sylvestria, 114; 'Ann Tilly, 104,
Especie. Fourth race-three year olds and up

conditions, purse \$100, seven furlongs-Prince Ahmen, 111, Star Box.ie, 114 Dynamite, 114, Stentor, 111, Jahot, 111 Sepulveda, 114. Fifth race-three year olds and up selling, purse \$100, one mile-Kinde Lou, 107; *Master Jim, 108; *Mycenae 108; *Ford Mai, 102; Spar Pole, 110 Reno, 107; *Ralph Lloyd, 102; Chartier 116; Joe Stein, 118; *Outlan, 108; *Si Denrab, 111. Denrah, 111.

Sixth race—three year olds and up, selling, purre \$100, thirteen-sixteenthis mile—'My Fellow, 104; Dr. Waldo Briggs, 160; Chas. F. Grainger, 169 Marshon, 165; *Napier, 116; *Knight of Uncas, 160; *Tay Pay, 162; Irish Kfd.

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ing the field trials; Dr. Leigh Buckner, adelphia, accord vice-president; Charles

John Johnson, sons the Lynchburg High School to S. out, won; made easily the best record of high school in this section of the

Meetings



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